



#### GI 46 - GI 44/45

Pipe lengths (m)			
Reference	Horiz.	Slope	
GI 46 - GI 44/45	17.377	17.385	
Pipe design data			
Reference	Y	X	IL in / out DEPTH in / out
GI 46	87494.755	3282690.629	1343.300   1.927
GI 44/45	87491.706	3282677.736	1343.839   1.920

#### GI 47 - MH 18

Pipe lengths (m)			
Reference	Horiz.	Slope	
GI 47 - MH 18	17.069	17.083	
Pipe design data			
Reference	Y	X	IL in / out DEPTH in / out
GI 47	87362.678	3282555.268	1332.800   2.028
MH 18	87362.747	3282538.199	1332.100   2.081

#### HW 19 - HW 20

Pipe lengths (m)			
Reference	Horiz.	Slope	
HW 19 - HW 20	24.583	24.648	
Pipe design data			
Reference	Y	X	IL in / out DEPTH in / out
HW 19	87195.790	3282220.612	1331.800   0.489
HW 20	87172.351	3282213.202	1333.600   1.252

#### HW 21 - GI 49

Pipe lengths (m)			
Reference	Horiz.	Slope	
HW 21 - GI 49	5.796	5.802	
Pipe design data			
Reference	Y	X	IL in / out DEPTH in / out
HW 21	87176.701	3282173.188	1336.700   1.295
GI 49	87171.082	3282171.768	1337.000   2.515

#### HW 22 - GI 51/52

Pipe lengths (m)			
Reference	Horiz.	Slope	
HW 22 - GI 50	10.345	10.346	
GI 50 - GI 51/52	15.041	15.048	
Pipe design data			
Reference	Y	X	IL in / out DEPTH in / out
HW 22	87047.360	3282030.122	1356.300   1.391
GI 50	87037.669	3282033.742	1356.430   2.017
GI 51/52	87023.787	3282039.483	1356.999   2.165

#### GI 61 - HW 25

Pipe lengths (m)			
Reference	Horiz.	Slope	
GI 61 - HW 25	15.076	15.076	
Pipe design data			
Reference	Y	X	IL in / out DEPTH in / out
GI 61	86619.053	3281769.342	1398.600   2.025
HW 25	86629.698	3281758.667	1398.504   2.706

FOR FINAL APPROVAL

SYMBOL	DATE	DESCRIPTION	CHECKED	SIGNED
D	OCT 2019	FOR FINAL APPROVAL	KG	
C	AUG 2018	FOR APPROVAL	KG	
B	AUG 2016	FOR APPROVAL	MM	
AMENDMENTS				

<b>AS BUILT</b>	DATE
SUPERVISING ENGINEER	
SUPERVISING AUTHORITY	

CONTINUED FROM: C45226	DESIGNED BY: M MARAIS
CONTINUED ON: C45228	CHECKED BY: K GOVENDER
CROSS SECTION NO: C41972-C41982	DRAWN BY: P RAMAUTAR
PLAN NO: C41964-C41971	CHECKED BY: M SINGH
NAIDU CONSULTING - CONSULTING ENGINEER K. GOVENDER	SIGN: DATE:

Designed by:-

Naidu Consulting no. - D267/4113/D

**transport**  
Department:  
Transport  
Province of KwaZulu-Natal

UPGRADE OF MAIN ROAD P402 ( HOLY FAMILY CONVENT - KWAMGWAGWA)

TRANSPORTATION ENGINEERING: CHIEF ENGINEER  
HEAD: TRANSPORT

DESCRIPTION  
**FROM KM 0+000 - KM 7+517**  
PIPE LONGITUDINAL SECTION

STAKED KM DISTANCE AS SHOWN SHEET 4 OF 12

SCALE: HOR 1:2000 VERT 1:200

PLAN No: **C45227**

C45227